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University of Kentucky

Commercial Feeds in Kentucky in 1928

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BULLETIN NO. 295

Commercial Feeds in Kentucky in 1928

By J. D. TURNER, H. D. SPEARS, W. G. TERRELL
and L. V. AMBURGEY

Bulletin No. 284 of the Experiment Station series by this Department, discussed feeds and their use and the various terms used in the feed industry. This bulletin deals primarily with the inspection and analyses of feeds in 1928.

During this period Kentucky feeders used over fifty thousand tons more of commercial feeds, exclusive of whole grains and hays, than they did in 1927. At a conservative estimated retail price, over fifteen million dollars were spent by feeders in Kentucky, in 1928, for commercial feeds. On the basis of the value placed on livestock in Kentucky by the U. S. Department of Agriculture, January 1, 1929, the cost of commercial feeds for the year amounts to one-seventh of the total value of all livestock in the State. It equals the value of all horses in Kentucky, is three-fourths that of all mules, three-tenths that of all cattle, or nearly half that of all dairy stock. It is nearly one-third more than the value of all sheep, two and a half times that of all swine, or one-fourth more than that of all poultry. From a study of these figures, it will be seen that expenditure for commercial feeds is one of the chief items of expense in the livestock industry, whether one is feeding for milk, eggs, pork, beef, work or young stock for growth.

SELECTING FEEDS

In many instances, feeders do not exercise enough care in purchasing their feeds and too often buy on price rather than on quality. Careless buying means a loss to feeders as improper feeds and feeding render stock less efficient for growth and pro-

duction. During 1928 Kentucky feeders bought and fed to their stock in the form of mixed feed, over 20,000 tons of materials of little or no feeding value as concentrates. This refers to such materials as screenings refuse, oat hulls, grain dust, grain screenings, flax plant by-product and elevator waste that are found in the cheap grades of mixed feeds. Often feeders had better materials going to waste on their own farms. They paid from $45 to $55 a ton for these materials when mixed with other ingredients or, in round numbers, about one million dollars. It would be hard to place a reasonable value on these high fibrous and waste materials as compared with good products of recognized value, but assuming that they had a value on an average of $20 a ton, which is very doubtful, or a total worth of $400,000, it would still mean a loss to the feeders of Kentucky, on the basis of these figures, of something over $600,000 for the year.

In addition to this, it is estimated that at least $40,000 was paid for salt used in mixed feeds and over $45,000 for minerals, principally ground limestone or calcium carbonate. While these materials serve an important purpose when needed, they could be placed before animals in an available form for free access at a much less cost.

SUGGESTIONS TO PURCHASERS

The Department is endeavoring to give the feeder such information and protection as will safeguard him. If he will avail himself of the information afforded, his feed problems should be few and easy to solve. Under the system of labeling feeds, he can readily tell just what sort of feed he is buying. Furthermore, a "danger signal" in the form of the *yellow tag* for adulterated feeds or feeds containing materials of little or no feeding value, has been placed before him. If he will examine the tag closely, he will find that such mixtures contain fillers or adulterants with their names and amounts clearly stated in bold-face type. For such fillers or adulterants he pays practically as much in actual cash as he does for high-grade feed materials, but when the results are considered he pays much more.

The following suggestions should be helpful to feeders in buying their feeds:

1. Ascertain what the animal needs and what will supply these needs, as no animal will give satisfactory results without proper feed.
2. If in doubt as to what the animal needs, consult the Kentucky Agricultural Experiment Station or some authority on the subject.
3. Buy from reputable concerns and they will assist you in your problems.
4. Do not buy commercial feed that is not tagged with a Kentucky official tag at the time of purchase.
5. Read carefully the information given on the official tag.
6. A **yellow tag** feed is one containing adulterants or fillers and in most cases is the **highest priced** feed on the market. Beware of yellow tag feeds.
7. High-grade feeds are the most economical.

ESSENTIALS OF A PROPER FEED

According to our present knowledge of animal nutrition, the diet of animals should conform to the following conditions:

1. Contain sufficient digestible complete proteins and digestible energy-producing substances (starch, fat, sugar) in the right proportions.
2. Contain the proper amount of indigestible fibrous material such as is found in plants.
3. Contain the vitamins in adequate amounts.
4. Contain the right kinds of mineral matter in adequate amounts.
5. Be free from injurious substances such as poisons, especially cumulative poisons, disease germs or anything that causes mechanical injury.

CHEMICAL STANDARDS

Chemical standards for many byproduct feeds and special purpose mixed feeds have been established. Such feeds must be of reasonable quality before they can be sold under descriptive or special purpose names. For instance, if wheat middlings contain less than 16 per cent protein, 4 per cent fat and over

7.50 per cent fiber, they must be labeled under some other name. Another example, a dairy feed has to meet certain requirements before it can be registered and sold as a dairy feed. It must contain at least 16 per cent protein, 3.50 per cent fat and not over 15 per cent fiber to entitle it to registration for sale as a dairy feed in Kentucky. If adulterants or fillers are used, their names must be stated in the list of ingredients and the amounts used.

A reasonable number of ingredients are required in the mixtures of special purpose mixed feeds to give palatability and insure the presence of a variety of protein compounds. Different kinds of protein differ greatly in their efficiency for promoting growth, repairing tissue waste and preserving the health of animals. One form of protein from a particular source may serve a specific function in animal nutrition, while other proteins and their combinations will serve entirely different purposes. Investigations have shown that the action of one protein may supplement the action of another so that the two together are more efficient than either alone. A knowledge of the sources of protein is not only important to feeders, but a variety of proteins is very essential to proper nutrition.

The chemical standards, stated as minimum percentages of protein and fat and maximum percentage of fiber, are as follows:

1. **Standard By Products:**	Minimum Protein Percent	Minimum Fat Percent	Maximum Fiber Percent
Mixed Wheat Feed	15.50	4.00	8.50
Wheat Bran	14.50	3.75	10.00
Brown Wheat Middlings or Shorts	16.00	4.00	7.50
Gray Wheat Middlings or Shorts	16.00	4.00	6.00
White Wheat Middlings or Shorts / Flour Middlings	16.00	3.75	4.00
Corn Feed Meal	8.00	3.75	5.00
Cracked Corn	8.00	3.50	3.00
Hominy Meal, Hominy Feed or Hominy Chop	10.00	7.00	6.00

	Alfalfa Meal	.....	.....	32.00
	Rye Middlings	.....	.....	6.00
	Ground Barley	.....	....	6.50
	Ground Oats	.....	.....	12.00
2.	**Special Purpose Mixed Feeds:**			
	Dairy Feed	16.00	3.50	15.00
	Horse and Mule Feed	9.00	2.50	15.00
	Hog Feed (Growing)	16.00	3.50	7.00
	Hog Feed (Fattening)	13.00	3.50	7.00
	Laying Mash	18.00	3.50	8.00
	Growing Mash	17.00	3.50	6.00
	Starting Mash	15.00	3.50	5.00
	Fattening Mash	13.00	4.00	6.00
	Poultry Grains (Scratch)	9.00	3.00	5.00
	Baby Chick Grains	9.00	2.50	3.50

Chemical standards for other special purpose feeds will be adopted from time to time as needed. Standards for all-mash poultry rations are now being studied and a list is given below as tentative for this purpose.

	Minimum Protein Percent	Minimum Fat Percent	Maximum Fiber Percent
All-Mash Laying Ration	15.00	4.00	7.00
All-Mash Poultry Ration	15.00	4.00	6.00
All-Mash Growing Ration	15.00	4.00	6.00
All-Mash Starting Ration	14.00	3.50	5.00

SPECIAL PURPOSE FEEDS DEFINED

Bulletin No. 284 contains the definitions of various materials adopted by the Association of Feed Control Officials of the United States. In this bulletin definitions of special purpose mixed feeds by the Association of Food, Feed and Drug Officials of the South Central States are given. These definitions are intended to assist the manufacturer to classify and name his feeds and rations according to their special use, and aid the purchaser in buying feeds for the purpose desired and intended. For instance, a ration is a complete feed and does not require other feed to be fed in addition to it. A feed may or may not be a

ration, but ordinarily requires other materials to be fed with it to supply the complete requirements of animals. These definitions are:

Dairy or Dairy Cow Feed is a feed intended to supplement hay, silage or other roughage, in the feeding of cows giving milk.

Dairy or Dairy Cow Ration is a complete feed for milk cows and contains both concentrates and roughage.

Horse and Mule Feed is a feed for horses and mules intended to be fed in addition to hay or other roughage.

Horse and Mule Ration is a complete feed for horses and mules, and contains both concentrates and roughage.

Hog Feed is a feed intended to be fed hogs receiving grain or other feed.

Hog Ration is a feed intended to be fed to hogs without other feed.

Laying Mash is a feed intended for laying hens that are also receiving scratch feed.

Growing Mash is a feed intended for growing chickens that are also receiving scratch feed.

Starting Mash is a feed for baby chicks up to about eight weeks old intended to be fed with scratch feed.

All-Mash Chick Feed (Chick Starting Ration) is a feed intended to be fed to baby chicks which do not receive scratch feed.

All-Mash Poultry Fattening Feed (Poultry Fattening Ration) is intended to be fed fattening poultry which do not receive any scratch feed.

All-Mash Laying Feed (Poultry Laying Ration) is a feed intended for laying hens which do not receive any scratch feed.

All-Mash Growing Feed (Poultry Growing Ration) is a feed intended for growing chickens which do not receive any scratch feed.

Poultry Grains or Scratch Feed consists of a mixture of whole or broken grains, suitable for poultry.

Baby Chick Scratch Feed consists of a mixture of cracked or whole grains suitable for baby chickens.

TONNAGE FOR 1928

In the following tabulation, the feeds sold in Kentucky during the year are grouped according to class, with tonnage computed from tax tags issued.

		Tons
Wheat Bran		9,660
Wheat Middlings, Shorts		24,885
Mixed Wheat Feed		38,850
Red Dog		1,175
Ground Wheat		50
Miscellaneous Wheat Feeds		5,425
Cracked Corn		20,100
Corn Feed Meal		3,625
Hominy Feed		9,750
Corn Bran		25
Corn Gluten Feed		175
Crushed Ear Corn		550
Mixed Feed (Wheat and Corn)		37,125
Dairy Feed:		
16½% Protein	30,300	
20% Protein	10,325	
24% Protein	16,875	
32% Protein	175	
40% Protein	25	
		57,700
Horse and Mule Feed		29,900
Poultry Grains:		
Scratch	28,255	
Chick	6,035	
		34,290
Pigeon Feed		425
Poultry Mash:		
Laying	11,075	
Growing	2,825	
Starting	3,485	
Fattening	3,200	
All-Mash	1,146	
		21,731
Hog Feed		5,700
Sheep Feed		1,550
Stock Feed		6,725

Cottonseed Meal:		
41% Protein	10,560	
43% Protein	1,550	
36% Protein	140	
20% Protein	125	
		12,375
Tankage		3,075
Meat Meal and Scraps		750
Bone Meal		25
Linseed Oil Meal		1,150
Alfalfa Meal		150
Brewers Dried Grains		225
Ground Oats		1,175
Oat Hulls and Oat Shorts		750
Oat Groats		25
Ground Barley		500
Corn and Oats Chop		400
Corn, Oats and Barley Chop		50
Palmo Midds		600
Dried Buttermilk		312
Semi-Solid Buttermilk		325
Dried Skim Milk		25
Calf Meal		325
Dog Feed		185
Rice Bran		250
Rye Feed		400
Miscellaneous		125

SUMMARY OF RESULTS OF INSPECTION AND ANALYSIS.

Acme-Evans Co., Indianapolis, Ind. Inspection samples analyzed, 10.
- Acme Feed, 2; equaled guaranty.
- Acme Farm Feed, 1; equaled guaranty.
- Acme Hominy Feed, 1; equaled guaranty.
- Acme Ground Oats, 1; too low in protein.
- Producer All-Mash Poultry Feed (With Dried Buttermilk), 2; 1 too low in protein.
- Acme Dairy Feed, 1; equaled guaranty.
- Producer Dairy Feed, 2; equaled guaranty.

The Acme Mills, Hopkinsville, Ky. Inspection samples analyzed, 4.
- "Old Kentucky Home" Laying Mash, 1; equaled guaranty.
- Butternut Dairy Feed, 1; equaled guaranty.

Supreme Dairy Feed, 1; too low in fat and too high in fiber; excess oat byproduct present; contained alfalfa meal and flax plant byproduct though not listed; no malt sprouts or wheat bran present—adulterated and misbranded.

Moo-Cow Dairy Feed, 1; contained flax plant byproduct, cottonseed meal, oat product and molasses though not listed; no malt sprouts present—adulterated and misbranded.

Adairville Milling Co., Adairville, Ky. Inspection sample of Shipstuff analyzed, 1; equaled guaranty.

The William Addams Co., Cynthiana, Ky. Inspection samples of Waco Cow Feed analyzed, 2; 1 too low in protein.

Alfocorn Milling Co., St. Louis, Mo. Inspection samples analyzed, 6.

Full Pail Dairy Feed, 1; too low in fat.

Diamond "D" 16% Dairy Feed, 1; contained linseed oil meal though not listed; only trace corn gluten feed present.

Alfocorn Milk Maker, 1; equaled guaranty.

Diamond Sweet Dairy Feed, 1; contained wheat bran, brewers dried grains and corn screenings though not listed.

Diamond "D" 24% Dairy Feed, 1; equaled guaranty.

Alfocorn Hog Fatner, 1; much too low in protein.

The Allen & Wheeler Co., Troy, Ohio. Inspection samples analyzed, 7.

Trojan Flour Middlings & Screenings, 1; equaled guaranty.

Trojan A-1 Farm Feed, 1; too low in protein and too high in fiber

Trojan Corn, Oats, Barley Stock Feed, 1; too high in fiber.

Trojan Egg Mash, 1; equaled guaranty.

Su-Kow Dairy Feed, 1; too low in fat.

Trojan I. X. L. Dairy Feed, 2; too low in protein; 1 contained corn gluten feed and molasses though not listed, no malt present.

American Milling Co., Peoria, Ill. Inspection samples analyzed, 19.

Amco Egg Mash With Meat Scraps, 1; equaled guaranty.

Amco Horse Feed, 1; equaled guaranty.

Amco "Ideal Brand" Horse & Mule Feed, 3; 1 too low in protein.

Amco Hog Profit Feed, 1; too low in fat.

Amco "Ideal Brand" 16% Dairy Ration, 4; equaled guaranty.

Amco 16½% Sucrene Dairy Ration, 4; 1 contained corn blowings though not listed.

Amco 20% Dairy Ration, 1; contained brewers dried grains though not listed.

Amco 20% National Dairy Ration, 2; equaled guaranty.

Amco 24% Dairy Ration, 1; equaled guaranty.

Amco 24% Universal Dairy Ration, 1; equaled guaranty.

Anderson & Spilman, Danville, Ky. Inspection samples of Anderson & Spilman Feed analyzed, 3; too high in fiber; 2 too low in protein; 1 adulterated with oat hulls; 1 contained excess of corn bran.

Anheuser-Busch, Inc., St. Louis, Mo. Inspection sample of Anheuser-Busch Brand Corn Gluten Feed analyzed, 1; equaled guaranty.

The Ansted & Burk Co., Springfield, O. Inspection sample of "William Tell" Middlings & Screenings analyzed, 1; too low in protein.

Arcady Farms Milling Co., Chicago, Ill. Inspection samples analyzed, 9.
Arcady Besbet Laying Mash, 1; equaled guaranty.
Wonderfat Station Feed, 1; equaled guaranty.
Provo Dairy Feed, 4; 1 too low in protein; 2 too high in fiber; 1 contained flax plant byproduct though not listed; 1 no linseed oil meal present; 1 contained less than 3% wheat middlings.
Arcady Dairy Feed, 2; 1 too high in fiber; no alfalfa meal present, contained oat byproduct though not listed and excess of grain screenings and weed seeds—adulterated and misbranded.
Producer's Ready Ration, 1; contained grain screenings and weed seeds though not listed.

Armour Fertilizer Works, Chicago, Ill. Inspection sample of Armour's 60% Meat Meal analyzed, 1; equaled guaranty.

Ashcraft-Wilkinson Co., Atlanta, Ga. Inspection samples of 41% Helmet Brand Cottonseed Meal analyzed, 2; 1 too low in protein.

The C. T. Ashley Co., Nicholasville, Ky. Inspection samples of Red Raven 20% Dairy Feed analyzed, 2; too low in protein; 1 too high in fiber.

Aubrey & Co., Louisville, Ky. Inspection samples analyzed, 15.
Hominy Feed, 1; equaled guaranty.
Red "A" 60% Digester Tankage, 1; too low in protein.
Rye Feed & Screenings, 1; equaled guaranty.
Pure Soft Wheat Mixed Feed, 2; 1 too low in protein.
Red "A" Wheat Feed & Screenings, 4; 2 too low in protein.
Supreme Laying Mash With Buttermilk, 2; equaled guaranty.
Monarch 16½% Protein Feed, 2; 1 too low in protein; contained corn blowings and weed seeds though not listed; 1 contained kaffir corn though not listed.
Dandy 20% Protein Feed, 1; too low in protein; no rice bran present.
Supreme 24% Dairy Feed, 1; too low in protein.

Aviston Milling Co., Aviston, Ill. Inspection samples analyzed, 3.
Owl Wheat Middlings & Screenings, 1; too low in protein.
Results Mixed Wheat Feed & Screenings, 1; equaled guaranty.
Owl 16% Dairy Feed, 1; equaled guaranty.

J. J. Badenoch Co., Chicago, Ill. Inspection samples analyzed, 12.
43% Cottonseed Meal, 1; too low in protein.

Egg-A-Day Dry Mash, 1; contained corn gluten feed though not listed; no soybean meal present.
Sunflower Egg Mash, 1; equaled guaranty.
Circle Bee Steer Fatner. 1; contained excess screenings and weed seeds.
Sweet Honey Bee Dairy Feed, 3; equaled guaranty.
Milky Way Dairy Feed (With Beet Pulp), 1; equaled guaranty.
Special Milky Way Dairy Feed, 1; equaled guaranty.
C-Er-Pay Dairy Feed, 1; equaled guaranty.
Circle Bee Dairy Feed, 1; equaled guaranty.
Jay Bee Dairy Feed, 1; equaled guaranty.

Ballard & Ballard Co., Louisville, Ky. Inspection samples analyzed, 13.
Ballard's Bran, 1; equaled guaranty.
Ballard's Mixed Wheat Feed & Screenings, 2; 1 too low in protein.
Ballard's Kentucky Farm Feed & Screenings, 2; equaled guaranty.
Insurance College Formula Egg Mash, 1; equaled guaranty.
Ballard's Insurance Laying Mash, 1; equaled guaranty.
Ballard's Insurance Pig Grower, 1; equaled guaranty.
Guardian 16 Sweet Dairy Feed, 2; equaled guaranty.
Ballard's Milk Insurance Dairy Feed, 2; 1 too low in protein.
Insurance 24% Sweet Dairy Feed, 1; equaled guaranty.

Bardstown Mills, Bardstown, Ky. Inspection samples analyzed, 3.
Royal Mill Feed, 1; equaled guaranty.
Royal Mash Feed, 1; too low in protein.
Royal Dairy Feed, 1; too low in protein.

J. H. Baughman & Co., Stanford, Ky. Inspection samples of Mixed Mill Feed analyzed, 2; 1 too low in protein, contained oat hulls though not listed, excess of corn bran present.

Bennett-Tyner Grain Co., Nashville, Tenn. Inspection sample of Moon-Beam Dairy Feed analyzed, 1; too low in protein and too high in fiber; oat hulls added—misbranded.

Bernet, Craft & Kauffman Milling Co., Mt. Carmel, Ill. Inspection samples analyzed, 3.
"Ideal Brand" Pure Wheat Middlings, 2; equaled guaranty.
"Ideal Brand" Pure Wheat Mixed Feed, 1; equaled guaranty.

Bisbee Linseed Co., Chicago Heights, Ill. Inspection sample of "Bisbee" 32% analyzed, 1; equaled guaranty.

Blatchford Calf Meal Co., Waukegan, Ill. Inspection samples analyzed, 3.
Blatchford's Chick Mash, 1; too low in protein.
Blatchford's "Fill the Basket" Egg Mash, 1; equaled guaranty.
Blatchford's Calf Meal, 1; equaled guaranty.

Blish Milling Co., Seymour, Ind. Inspection sample of Bull's Eye Mixed Wheat Feed analyzed, 1; equaled guaranty.

Blue Grass-Elmendorf Grain Corporation, Lexington, Ky. Inspection samples analyzed, 4.
"Blue Elm" Egg Maker Mash, 1; too low in protein and too high in fiber.
"Blue Elm" Nectar Feed, 1; too low in protein.
"Blue Elm" Peerless Cow Feed, 2; too low in protein.

F. W. Brode Corporation, Memphis, Tenn. Inspection samples of Owl Brand 41% Cottonseed Meal analyzed, 5; 4 too low in protein; 3 too high in fiber.

Chas. Broeker & Co., Owensboro, Ky. Inspection sample of XX Mixed Feed analyzed, 1; equaled guaranty.

Buffalo Roller Mills, Buffalo, Ky. Inspection sample of Buffalo Feed analyzed, 1; contained wheat screenings though not listed.

Cadick Milling Co., Grandview, Ind. Inspection sample of Mixed Wheat Feed analyzed, 1; too low in protein.

Cannelton Flour Mills, Cannelton, Ind. Inspection sample of Shipstuff & Screenings analyzed, 1; equaled guaranty.

Cecilian Milling Co., Cecilia, Ky. Inspection samples analyzed, 2.
Gray Wheat Shorts, 1; equaled guaranty.
"Purity Brand" Mixed Feed, 1; equaled guaranty.

The Central Kansas Milling Co., Lyons, Kansas. Inspection samples analyzed, 2
Wheat Gray Shorts, 1; equaled guaranty.
Wheat Mixed Feed & Screenings, 1; equaled guaranty.

The Charleston Milling & Produce Co., Charleston, W. Va. Inspection samples analyzed, 3.
Quality Wheat Middlings & Screenings, 1; equaled guaranty.
Double Bar Horse & Mule Feed, 1; equaled guaranty.
Single Bar Dairy Ration, 1; contained flax plant byproduct though not listed; no bone meal or salt present—misbranded.

Chattanooga Cotton Oil Co., Chattanooga, Tenn. Inspection samples analyzed, 3.
Lookout 36%, 1; too low in protein.
Lookout 41%, 2; too low in protein and too high in fiber.

Cherokee Mills, Nashville, Tenn. Inspection sample of Cherokee Mixed Feed analyzed, 1; too low in protein and fat; contained gray wheat middlings though not listed; no corn gluten feed present.

Cincinnati Grain & Hay Co., Cincinnati, O. Inspection samples analyzed, 3.
Wheat Middlings, 1; too low in protein and too high in fiber; excess of wheat bran present.

Rye Middlings, 1; too high in fiber.
"No Better" Dry Egg Mash, 1; too low in protein and too high in fiber.

Citizens Roller Mills, Somerset, Ky. Inspection sample of White Rose Laying Mash analyzed, 1; too low in protein.

Clark & Watson, Summer Shade, Ky. Inspection sample of Mixed Wheat Feed analyzed, 1; too low in fat.

Climax Roller Mills, S. M. Long & Sons, Prop., Shelbyville, Ky. Inspection samples of Climax Mill Feed analyzed, 2; 1 contained wheat middlings though not listed, no corn bran or wheat screenings present.

The G. E. Conkey Co., Cleveland, O. Inspection samples analyzed, 2.
Conkey's Starting Feed, 1; too low in protein.
Gecco Egg Mash, 1; contained bone meal though not listed; no bean meal present; only trace of alfalfa meal present.

The Corno Mills Co., E. St. Louis, Ill. Inspection samples analyzed, 13.
Corno Growing Mash, 1; equaled guaranty.
Corno Starting Mash, 1; equaled guaranty.
Corno Laying Mash, 3; equaled guaranty.
Corno Premium Feed, 1; equaled guaranty.
Corno Sweet Feed, 1; too low in protein and fat.
Nutro Sweet Feed, 1; only trace of cottonseed meal present.
Nutro Dairy Feed, 3: contained excess of oat hulls; 1 too high in fiber.
Corno Dairy Feed, 2; 1 too low in protein.

Crescent Roller Mills, Taylorsville, Ky. Inspection samples of Shipstuff analyzed, 2; equaled guaranty.

Dan Joseph Co, Columbus, Ga. Inspection samples of "Pinta" Columbus Brand 41% Cottonseed Meal analyzed, 3; too low in protein.

Dewey Bros. Co., Blanchester, O. Inspection sample of Dewey's Dairy Ration analyzed, 1; equaled guaranty.

Dixie Mills Co., E. St. Louis, Ill. Inspection sample of Dixota Feed analyzed, 1; equaled guaranty.

The Early & Daniel Co., Cincinnati, O. Inspection samples analyzed, 15.
Tuxedo 41% Cottonseed Meal, 1; equaled guaranty.
Tuxedo Egg Mash (Ohio Formula), 1; contained corn gluten meal, linseed oil meal and cottonseed meal though not listed; no meat meal present.
Tuxedo Hog Ration, 2; too high in fiber.
Tuxedo 19% Hog Ration, 1; too high in fiber.
Miami Stock Feed, 1; equaled guaranty.

Miami Sheep Feed, 1; excess of oat hulls present.
Miami Dairy Feed, 1; equaled guaranty.
Tuxedo Dairy 16%, 1; too low in protein and too high in fiber.
Tuxedo Dairy 20%, 1; equaled guaranty.
Rex Dairy, 1; equaled guaranty.
Cerealia Sweets, 1; equaled guaranty.
Tuxedo Dairy 24%, 2; 1 too high in fiber, contained soybean meal though not listed.
Tuxedo Dairy 33%, 1; equaled guaranty.

The Eaton Flour Mills, Eaton, Colo. Inspection sample of Wheat Mixed Feed analyzed, 1; too low in protein.

Ellis & Wyatt, Russellville, Ky. Inspection sample of Mixed Feed analyzed, 1; contained gray wheat middlings though not listed.

The Emery Thierwechter Co., Oak Harbor, O. Inspection samples analyzed, 4
Etco Middlings & Screenings, 1; too low in protein and too high in fiber.
Etco Dairy Ration, 1; too low in protein and fat; no calcium carbonate present.
Emco Dairy Feed, 2; too low in protein; contained oat hulls though not listed; 1 contained fibrous foreign material and grain screenings and weed seeds though not listed; adulterated and misbranded.

Evans Milling Co., Indianapolis, Ind. Inspection sample of Emco Feed analyzed, 1; equaled guaranty.

Excelsior Milling Co., Minneapolis, Minn. Inspection sample of Camel Wheat Mixed Feed & Screenings analyzed, 1; too low in protein and too high in fiber.

Exchange Milling Co., Sturgis, Ky. Inspection sample of Smith's Special Dairy Feed analyzed, 1; much too low in protein; contained molasses though not listed; no ground oats present.

Falls City Feed Mills, Louisville, Ky. Inspection sample of Shur-Pleez Scratch Feed analyzed, 1; only trace of barley and oats present.

Falls City Ice & Beverage Co. Louisville, Ky. Inspection sample of Brewers Dried Grains analyzed, 1; equaled guaranty.

Oscar Farmer & Sons, Louisville, Ky. Inspection sample of 41% Cottonseed Meal analyzed, 1; equaled guaranty.

Farmers & Merchants Milling Co., Brooksville, Ky. Inspection sample of Mixed Wheat Feed analyzed, 1; equaled guaranty.

Farmers Supply Co., Richmond, Ky. Inspection samples analyzed, 4.
Farmo Laying Mash, 1; contained linseed oil meal though not listed.

Farmo Hog Feed, 1; contained corn screenings and blowings though not listed.

Trico Dairy Feed, 1; equaled guaranty.

Farmo 24% Dairy Feed, 1; much too low in protein.

Felss Flour Milling Co., Cincinnati, O. Inspection sample of Snowflake Scratch Feed analyzed, 1; too high in fiber; contained only traces of buckwheat, barley, kaffir and sunflower seed—misbranded.

Ferncliff Feed & Grain Co., Louisville, Ky. Inspection samples analyzed, 8.

Cracker Jack Horse & Mule Feed No. 1, 1; too low in protein.

Cracker Jack Horse & Mule Feed No. 2, 1; too low in protein.

P. D. Q. Horse & Mule Feed, 1; much too low in protein and too high in fiber.

"Sweet Sixteen" Dairy Feed, 2; 1 too high in fiber.

Butternut Dairy Feed, 2; equaled guaranty.

Cracker Jack 24% Sweet Dairy Ration, 1; equaled guaranty.

Field Packing Co., Owensboro, Ky. Inspection sample of Field's 60% Tankage analyzed, 1; much too low in protein; inferior product to guaranty.

Henry Fischer Packing Co., Louisville, Ky. Inspection samples of "Mellwood Brand" 60% Digester Tankage analyzed, 2; much too low in protein.

Flemingsburg Mills, Flemingsburg, Ky. Inspection sample of Mixed Feed analyzed, 1; contained white wheat middlings though not listed; no corn bran present.

Henry Fruechtenicht, Louisville, Ky. Inspection samples analyzed, 3.

Ground Oats, 2; 1 too high in fiber.

Corn Feed Meal, 1; equaled guaranty.

Fuhrer Ford Milling Co., Mt. Vernon, Ind. Inspection sample of Wheat Shorts & Screenings analyzed, 1; equaled guaranty.

Galesburg Molasses Feed Co., Galesburg, Ill. Inspection sample of Biddy's Chick Feed analyzed, 1; too low in protein and fat; only trace of wheat and no millet present.

Garrard Mills, Lancaster, Ky. Inspection sample of Glen Lily Mixed Feed analyzed, 1; too high in fiber; contained grain screenings though not listed.

General Commission Co., Kansas City, Mo. Inspection sample of Heart of America Mixed Feed analyzed, 1; much too low in protein; inferior to guaranty.

Georgia Distributing Co., Atlanta, Ga. Inspection sample of "Gold Dust Brand" 36% Protein Cottonseed Meal analyzed, 1; much too low in protein and too high in fiber.

Germantown Milling Co., Germantown, Ky. Inspection sample of Mixed Wheat Feed analyzed, 1; equaled guaranty.

Edw. F. Goeke Sons, Evansville, Ind. Inspection sample of Dixie Lee 16% Dairy Ration analyzed, 1; too high in fiber; contained excess of clipped oat byproduct; only trace of linseed oil meal present.

Goff Milling Co., Hiseville, Ky. Inspection sample of Mixed Wheat Feed & Screenings analyzed, 1; equaled guaranty .

William O. Goodrich Co., Milwaukee, Wis. Inspection sample of Goodrich 34% Old Process Linseed Meal analyzed, 1; equaled guaranty.

F. H. Gordon, Richmond, Ky. Inspection sample of Gordon Dairy Ration analyzed, 1; contained corn gluten feed and corn bran though not listed; no peanut meal, copra meal or corn meal found misbranded.

Greendale Mills, Lawrenceburg, Ind. Inspection samples analyzed, 6.
Greendale Laying Mash With Dried Buttermilk, 1; too high in fiber.
Greendale 16% Dairy Feed, 2; too low in fat and too high in fiber; contained flax plant byproduct though not listed; no brewers dried grains present; 1 contained only trace of oat byproduct, no linseed oil meal, soybean oil meal or corn gluten feed present; misbranded.
Greendale 16% Dairy Feed Sweet, 3; much too high in fiber; 1 too low in protein; ingredients not as guaranteed—adulterated and misbranded.

Green River Milling Co., S. Carrollton, Ky. Inspection sample of Green River Feed analyzed, 1; too low in protein.

Greenup Milling Co., Greenup, Ky. Inspection sample of Standard Feed analyzed, 1; equaled guaranty.

Gwinn Bros. & Co., Huntington, W. Va. Inspection sample of Farm Feed analyzed, 1; equaled guaranty.

Hales & Hunter Co., Chicago, Ill. Inspection samples analyzed, 5.
Red Comb Egg Mash, 1; wrong label attached.
Pioneer Chop, 1; too low in protein and too high in fiber; contained excess of oat hulls; no cottonseed meal present.
Pioneer Hog Feed (With Dried Buttermilk & Minerals), 1; contained corn gluten feed though not listed.
Gold Flake Dairy Feed, 2; equaled guaranty.

Hardin Milling Co., Hardin, Ky. Inspection sample of Cracked Corn analyzed, 1; equaled guaranty.

Hardyville Roller Mills, Hardyville, Ky. Inspection sample of Mixed Feed analyzed, 1; equaled guaranty.

Harlan Milling Co., Bardwell, Ky. Inspection sample of Harlan's Wheat Shorts & Sreenings analyzed, 1; much too low in protein and fat; contained corn bran and wheat bran—misbranded.

The P. H. Harsha Milling Co., Portsmouth, O. Inspection samples analyzed, 2

Harsha's Middlings & Screenings, 1; screenings contained weed seeds.

Magnolia Mixed Feed, 1; equaled guaranty.

The Hermitage Mills, Nashville, Tenn. Inspection samples analyzed, 7.

Mak-Em-Lay Mash, 1; too low in protein and too high in fiber; contained oat hulls though not listed; alfalfa meal used instead of alfalfa leaf meal.

Mak-Em-Grow Hog Meal, 2; contained grain screenings, ground oats and salt though not listed; 1 too low in fat; 1 no linseed oil meal present.

Zev Horse & Mule Feed, 1; less than 3% alfalfa meal present.

Best Yet Dairy Feed, 1; equaled guaranty.

Jersey Queen Dairy, 2; 1 too high in fiber.

W. E. Hess & Co., Louisville, Ky. Inspection samples of Golden Egg Mash analyzed, 2; much too low in protein and too high in fiber; 1 contained ground oats though not listed.

Home Milling Co., Greenville, Ky. Inspection sample of Happy Home Mixed Feed analyzed, 1; too low in fat.

Hood Feed Co. Chattanooga, Tenn. Inspection sample of "Red Circle Brand" Fine Feed analyzed, 1; too high in fiber; adulterated with ground flax plant byproduct.

Hoosier Mineral Feed Co., Greenwood, Ind. Inspection samples analyzed, 2.

Hoosier Improved, 1; excess of salt present.

Sheep Mineral, 1; equaled guaranty.

Hopkinsville Milling Co., Hopkinsville, Ky. Inspection samples of Middlings & Screenings analyzed, 1; too low in protein and too high in fiber.

Humphreys-Godwin Co., Memphis, Tenn. Inspection samples analyzed, 11.

Dixie Brand 41% Cottonseed Meal, 7; 6 too low in protein.

Danish Brand 36% Cottonseed Feed, 4; 1 too low in protein.

Igleheart Bros., Evansville, Ind. Inspection sample of Pure Wheat Shorts & Screenings analyzed, 1; equaled guaranty.

Illinois Feed & Elevator Co., Bloomington, Ill. Inspection samples analyzed, 2.

Illinois Starting & Growing Mash (With Buttermilk & Cod Liver Oil), 1; too low in protein; contained oil product though not listed.

Daily Need Dairy Feed, 1; contained corn feed meal though not listed.

J. F. Imbs Milling Co., Belleville, Ill. Inspection sample of "Charm" Winter Wheat Middlings analyzed, 1; much too low in protein and too high in fiber.

International Sugar Feed Co., Memphis, Tenn. Inspection samples analyzed, 3

International Hummer Poultry Mash, 1; equaled guaranty.

International Special Dairy Feed, 2; 1 contained flax plant byproduct and oat hulls though not listed, excess of weed seeds present—adulterated and misbranded.

Keister Milling Co., Huntington, W. Va. Inspection samples analyzed, 2.

Fancy White Middlings, 1; too low in protein and too high in fiber.

Holstein Dairy Feed, 1; too low in protein.

George Keller, Newport, Ky. Inspection sample of Wheat Middlings & Screenings analyzed, 1; equaled guaranty.

Kellogg Co., Battle Creek, Mich. Inspection sample of Hexite Special Sweet Dairy Feed analyzed, 1; equaled guaranty.

Kentucky Feed & Grain Co., Louisville, Ky. Inspection samples analyzed, 30.

Corn Feed Meal, ; 1 too low in protein.

Ground Oats, 1; equaled guaranty.

Sedan Scratch Feed, 1; only trace of barley present.

King Tut Scratch Feed, 2; only traces of barley and cane seed present.

Kentucky Star Laying Mash, 1; equaled guaranty.

Premo Laying Mash, 2; too low in protein; 1 too high in fiber; 1 too low in fat.

Premo Growing Mash, 1; too low in protein.

Premo Hog Feed, 2; 1 contained grain screenings and weed seeds though not listed.

Sedan Horse Feed, 1; contained alfala meal though not listed.

Success Horse & Mule Feed, 1; equaled guaranty.

Kentucky Star Horse & Mule Feed, 3; 1 contained flax plant byproduct and grain screenings with weed seeds though not listed, only trace of alfalfa meal present.

"Mil-Ko," 1; contained corn gluten feed, corn feed meal and grain screenings with weed seeds though not listed.

Alfalfa Meal, Cane Molasses, Oat Middlings & Oat Hulls, 1; equaled guaranty.

Marshall's Sheep Feed, 1; too low in protein.

Kentucky Star Dairy Feed, 6; 1 too low in protein; 4 contained corn gluten feed though not listed; 2 no flax plant byproduct present.

Premo Dairy Feed, 1; equaled guaranty.

Marshall's 24% Dairy Feed, 3; 1 no linseed oil meal or rice bran present.

R. U. Kevil & Sons, Princeton, Ky. Inspection samples analyzed, 2.

Red Dog Flour, 1; too low in protein and fat.

Mixed Feed, 1; too low in protein.

Chas. A. Krause Milling Co., Milwaukee, Wis. Inspection samples of Amerikorn Dairy Ration analyzed, 2; 1 too high in fiber, contained oat product though not listed, no linseed oil meal or calcium carbonate present.

The Kroger Grocery & Baking Co., Cincinnati, O. Inspection sample of Kroger's Special Scratch Feed analyzed, 1; too low in protein; only trace of buckwheat present.

Kuttawa Milling Co., Kuttawa, Ky. Inspection sample of Corn Bran analyzed, 1; equaled guaranty.

The Ladish Co., Milwaukee, Wis. Inspection samples of Acto 16½% Sweet Dairy Feed analyzed, 2; 1 contained corn meal and linseed oil meal though not listed, excess of oat byproduct present.

The Lamar Alfalfa Milling Co., Lamar, Colo. Inspection sample of Alfalfa Meal analyzed, 1; equaled guaranty.

Lancaster Milling Co., Lancaster, Ky. Inspection samples of White Swan Feed analyzed, 2; 1 much too low in protein and fat and too high in fiber, contained ground oats though not listed, adulterated with oat hulls and corn cob; 1 contained ground barley though not listed.

The Larabee Flour Mills Corporation, Kansas City, Mo. Inspection sample of Wheat Mixed Feed & Screenings analyzed, 1; equaled guaranty.

Larmon Milling Co., Woodburn, Ky. Inspection sample of Mixed Feed analyzed, 1; no corn bran present.

The Larrowe Milling Co., Detroit, Mich. Inspection samples analyzed, 2.

Larro Egg Mash, 1; equaled guaranty.

Larro, 1; equaled guaranty.

Lawrenceburg Roller Mills Co., Lawrenceburg, Ind. Inspection samples analyzed, 3.

"Farm King" Gray Shorts & Screenings, 1; too high in fiber.

"Snowflake" Middlings & Screenings, 1; too low in protein.

"Snowflake" Mixed Wheat Feed and Screenings, 1; equaled guaranty.

Lexington Roller Mills Co., Lexington, Ky. Inspection samples analyzed, 5.

Thoroughbred Feed, 3; equaled guaranty.

Thoroughbred Cow Feed, 2; too low in fat; 1 too low in protein.

Lincoln Milling Co., Crab Orchard, Ky. Inspection samples analyzed, 2.

White Gold Mixed Mill Feed, 1; too low in protein; contained ground oats and salt though not listed.

White Gold Dairy Feed, 1; too low in protein; contained only small amount of alfalfa meal and oat byproducts; no cottonseed meal present.

Lindsborg Milling & Elevator Co., Lindsborg, Kans. Inspection sample of Gray Wheat Shorts analyzed, 1; equaled guaranty.

The Loudonville Milling Co., Loudonville, O. Inspection samples of Winter Wheat Middlings analyzed, 2; equaled guaranty.

Louisville Cereal Mill Co., Louisville, Ky. Inspection samples analyzed, 3.

Nonesuch Feed, 1; equaled guaranty.

Nonesuch Hominy Feed, 2; too low in protein.

Louisville Cotton Oil Mill, Louisville, Ky. Inspection samples analyzed, 7.

"Eagle Brand" 41% Choice Cottonseed Meal, 6; 1 too low in protein and too high in fiber.

43% Cottonseed Meal, 1; too low in protein.

Louisville Feed Mills, Louisville, Ky. Inspection samples analyzed, 3.

Lincoln Dairy Feed, 2; too low in protein 1 no rice bran present.

Premier 24% Dairy Feed, 1; no linseed oil meal present.

Louisville Milling Co., Louisville, Ky. Inspection samples of Sonny South Hominy Feed analyzed, 2; 1 too low in fat.

Louisville Provision Co., Louisville, Ky. Inspection sample of Lou-Pro 60% analyzed, 1; too low in protein.

L. B. Lovitt & Co., Memphis, Tenn. Inspection samples of Lovit Brand 41% Cottonseed Meal analyzed, 2; too low in protein.

Marianna Sales Co., Memphis, Tenn. Inspection samples of "White Mule Brand" 41% Cottonseed Meal analyzed, 4; 3 too low in protein.

Gentry McCauley, Versailles, Ky. Inspection sample of G. E. M. Cow Feed analyzed, 1; too low in protein; contained molasses though not listed.

Memphis Cottonseed Products Co., Memphis, Tenn. Inspection sample of Durham 41% analyzed, 2; 1 too low in protein.

Middlesboro Milling Co., Middlesboro, Ky. Inspection sample of Reliable 24% Dairy Feed analyzed, 1; too low in protein and fat; contained corn gluten feed and corn feed meal though not listed.

Milroy Milling Co., Milroy, Ind. Inspection samples analyzed. 3.
Milroy Middlings & Screenings, 1; equaled guaranty.
Milroy Feed Meal & Corn Bran, 1; too high in fiber.
Red Diamond Feed, 1; too high in fiber.

Model Mills, Georgetown, Ky. Inspection sample of Mixed Feed analyzed, 1; equaled guaranty.

The Monarch Milling Co., Kansas City, Mo. Inspection sample of Winter Wheat Gray Middlings & Screenings analyzed, 1; too high in fiber.

Morrison Milling Co., Glasgow, Ky. Inspection sample of Mixed Feed analyzed, 1; equaled guaranty.

Moseley Manufacturing Co., Louisville, Ky. Inspection samples analyzed, 3.
Moseley's Aidgrow Minerals for Cows, 1; too low in phosphoric acid.
Moseley's Aidgrow Minerals for Hogs, 2; no copperas present; contained excess of salt; 1 no soda present.

Mountain City Mill Co., Chattanooga, Tenn. Inspection samples of Blue Stock Fine Feed analyzed, 2; 1 too low in protein; 1 contained weed seeds though not listed, excess of screenings present.

Munfordville Milling Co., Munfordville, Ky. Inspection sample of Shipstuff analyzed, 1; too low in protein.

Munns Bros., Lexington, Ky. Inspection sample of 39% Tankage analyzed, 1; equaled guaranty.

Myers & Son, Glasgow, Ky. Inspection sample of Shipstuff analyzed, 1; equaled guaranty.

National Cottonseed Products Corporation, Memphis, Tenn. Inspection sample of Star Brand 41% Protein Cottonseed Meal analyzed, 1; too low in protein.

R. N. Neal & Co., Memphis, Tennessee. Inspection sample of "Triangle Brand" Prime 41% Protein Cottonseed Meal analyzed, 1; equaled guaranty.

Nicholson Mills, Henderson, Ky. Inspection sample of Vita-Pure 16% Sweet Dairy Feed analyzed, 1; too low in protein.

Nowak Milling Corporation, Hammond, Ind. Inspection samples analyzed, 4.
Union Dairy Feed, 2; 1 too low in fat, oat hulls substituted for screenings.
Domino Butterine Dairy Feed, 1; equaled guaranty.
Domino Cream-O-Lene Dairy Feed, 1; equaled guaranty.

Osborne-Cooper Mill Co., Rineyville, Ky. Inspection sample of Mixed Wheat Feed analyzed, 1; equaled guaranty.

Owensboro Milling Co., Owensboro, Ky. Inspection samples analyzed, 2.
Omilco Wheat Feed 1; equaled guaranty.
D-H Stock Feed, 1; contained salt though not listed.

The Park & Pollard Co., Chicago, Ill. Inspection samples analyzed, 3.
P & P Red Ribbon Scratch Feed, 1; only a trace of oats present.
Lay or Bust Dry Mash, 2; no kaffir corn or milo maize present.

Pecos Valley Alfalfa Mill Co., Hagerman, N. Mexico. Inspection sample of Velvet Meal analyzed, 1; equaled guaranty.

Penick & Ford, Ltd., Cedar Rapids, Ia. Inspection sample of Douglas Corn Gluten Meal analyzed, 1; equaled guaranty.

Pinnacle Mills, Morristown, Tenn. Inspection samples analyzed, 2.
Pinnacle Mixed Wheat Feed & Screenings, 1; too low in protein.
Full Value Dairy Feed, 1; excess of oat hulls present.

Geo. P. Plant Milling Co., St. Louis, Mo. Inspection samples analyzed, 2.
"Circle P" Wheat Middlings & Screenings, 1; too low in protein.
"Circle P" Wheat Mixed Feed & Screenings, 1; too low in protein.

R. C. Poage Milling Co., Ashland, Ky. Inspection samples analyzed, 3.
Wheat Middlings, 1; equaled guaranty.
Standard Feed, 1; contained ground weed seeds though not listed.
"Ideal Brand" Standard Feed, 1; too low in protein; contained corn meal though not listed; excess of corn bran present.

Polo Mills Co., E. St. Louis, Ill. Inspection sample of Holsum Dairy Feed analyzed, 1; too low in protein; no calcium carbonate present.

Pratt Food Co., Hammond, Ind. Inspection samples analyzed, 2.
Pratt's Victory Laying Mash (With Buttermilk), 1; too low in protein and too high in fiber.
Pratt's Victory Dairy Ration, 1; equaled guaranty.

Puritan Mills, Chicago, Ill. Inspection sample of Plymouth Stock Feed analyzed, 1; excess of oat hulls present.

The Quaker Oats Co., Chicago, Ill. Inspection samples analyzed, 4.
Quaker Ful-O-Pep Egg Mash, 1; equaled guaranty.
Horse Power Feed, 1; equaled guaranty.
Quaker Sugared Schumacher Feed, 1; equaled guaranty.
Quaker 16% Protein Dairy Ration, 1; too low in protein.

Ralston Purina Co., St. Louis, Mo. Inspection samples analyzed, 22.
Purina Baby Chick Chow Feed, 1; equaled guaranty.
Purina Chicken Fatena Feed, 1; equaled guaranty.
Purina Chicken Chowder Feed (With Charcoal) 3; equaled guaranty.
Purina Hog Fatena Feed (With Charcoal), 1; too high in fiber; contained corn feed meal though not listed.
Purina Checkerboard Hog Chow, 1; equaled guaranty.

Purina Pig Chow Feed (With Charcoal 1%), 2; 1 too high in fiber, corn feed meal substituted for hominy feed and corn germ meal.

Purina Omolene Feed, 1; equaled guaranty.

Purina Bulky Las Feed, 2; too high in fiber.

Just Sweet Feed, 2; equaled guaranty.

Purina Orange Checker Cow Chow Feed, 2; 1 contained corn feed meal though not listed.

Purina Cow Chow Feed, 6; 1 too high in fiber.

Rapier Sugar Feed Co., Owensboro, Ky. Inspection samples analyzed, 54.

Mixed Wheat Feed & Screenings, 1; equaled guaranty.

41% Cottonseed Meal, 2; 1 too low in protein.

Rapier's Easy Picking Scratch Feed, 1; equaled guaranty.

Rapier's Cheap Scratch Feed, 1; equaled guaranty.

Rapier's Complete Poultry Ration, 1; too low in protein; contained rice bran and grain screenings though not listed; no linseed oil meal present; only trace of red dog present.

Blue Hen Laying Mash (With Buttermilk), 1; too high in fiber, contained screenings and weed seeds though not listed; no linseed oil meal present—misbranded.

Rapier's Gold Star Hog Feed, 1; too low in fat and too high in fiber; no linseed oil meal or corn gluten feed present.

Rapier's Big Four Horse & Mule Feed, 1; equaled guaranty.

Rapier's Teamster Horse & Mule Feed, 2; 1 too low in protein.

Rapier's Otene Horse & Mule Feed, 3; 2 too low in protein; 1 too high in fiber; contained flax plant byproduct though not listed; 2 contained ground cocoa shells though not listed; adulterated and misbranded.

Rapier's Special Horse & Mule Feed, 2; too low in protein and much too high in fiber.

Rapier's 90% Grain Horse & Mule Feed, 1; too low in protein and fat.

Rapier's 90% Special Grain Horse & Mule Feed, 1; too low in protein and fat and too high in fiber; no linseed oil meal present

Rapier's Honey Meal, 1; too low in protein and much too high in fiber; contained flax plant byproduct though not listed—adulterated and misbranded.

Rapier's Bulky Sweet Mixed Feed, 1; no wheat shorts, corn feed meal or flax plant byproduct present; contained excess of grain screenings.

Rapier's Springtime Dairy Feed, 2; too low in fat; contained only trace of red dog flour; 1 too high in fiber, no linseed oil meal present; 1 no wheat shorts present.

Golden Rod Dairy Feed, 5; 3 too low in protein; 1 too high in fiber; no linseed oil meal present; contained cocoa shells though not listed; 2 no malt sprouts present; 3 contained only trace of red dog flour; 2 contained only trace of malt sprouts; 2 contained grain screenings though not listed; 3 contained rice bran though not listed; adulterated and misbranded.

Jersey Cream Dairy Feed, 16; 3 too low in protein; 4 too high in fiber; 7, ingredients not as guaranteed; 9, ingredients not as guaranteed—adulterated and misbranded.

Rapier's Creamo Dairy Feed, 11; 5 too high in fiber; 5, ingredients not as guaranteed—adulterated and misbranded; 2 no linseed oil meal present; 1 no malt sprouts present; 2 contained rice bran and soy bean meal though not listed.

Read Phosphate Co., New Albany, Ind. Inspection sample of Read's Red Diamond 60% Digester Tankage analyzed, 1; equaled guaranty.

Read Phosphate Co., Nashville, Tenn. Inspection sample of Red Diamond Sheep Mineral analyzed, 1; no copperas present.

The Rossville Grain Co., Lawrenceburg, Ind. Inspection samples analyzed, 6.

Rossville D. G. Special Egg Mash, 1; equaled guaranty.

Fortuna F. Dairy Feed, 1; too high in fiber.

Rossville Overall Dairy Feed, 1; equaled guaranty.

Rossville Overall Dairy Feed "B", 1; too low in protein.

Rossville Twin Star Dairy Feed, 2; too low in protein; 1 ingredients not in proportion guaranteed.

Salt Lick Roller Mills, Salt Lick, Ky. Inspection sample of Perfect Mixed Feed analyzed, 1; too low in protein.

Schultz-Baujan & Co., Beardstown, Ill. Inspection samples analyzed, 2.

Critic Mixed Wheat Feed & Screenings, 1; equaled guaranty.

Sunbeam Mixed Wheat Feed & Screenings, 1; equaled guaranty.

Scientific Milling Co., St. Louis, Mo. Inspection samples analyzed, 2.

Ivory Laying Mash, 1; too low in fat; contained ground oats and wheat bran though not listed.

Scientific Growing Mash, 1; too low in fat.

Security Mills, Knoxville, Tenn. Inspection samples analyzed, 3.

Blue Eagle Horse Feed, 1; equaled guaranty.

Blue Eagle Dairy Feed, 2; equaled guaranty.

Shepherdsville Roller Mills, Shepherdsville, Ky. Inspection samples analyzed, 2.

Ground Oats, 1; too low in protein and too high in fiber.

Ice's Dairy Feed, 1; too low in protein and fat and too high in fiber; contained cob meal though not listed—misbranded.

Simmons Milling Co., Cincinnati, O. Inspection samples analyzed, 5.

Decko Egg Mash, 1; no raw bone present.

Simco Egg Mash With Buttermilk, 1; only trace of ground oats present.

Simco Hog Feed With Buttermilk, 2; too low in protein; 1 no rice bran present.

Decko Dairy Feed, 1; equaled guaranty.

Simpson County Mills, Franklin, Ky. Inspection sample of Mixed Feed analyzed, 1; much too low in protein; excess of corn bran present.

Southern Feed & Grain Co., Louisville, Ky. Inspection samples analyzed 7.

Atlas 41% Cottonseed Meal, 1; too low in protein and too high in fiber.

Ideal Horse & Mule Feed, 1; equaled guaranty.

Eagle Horse & Mule Feed, 1; equaled guaranty.

Eagle Sweet Feed, 1; too low in protein.

Sugar Dairy Feed, 2; equaled guaranty.

Atlas Dairy Feed, 1; equaled guaranty.

Staley Milling Co., Kansas City, Mo. Inspection samples analyzed, 5.

Hominy Feed, 2; equaled guaranty.

Hy-Power Mixed Feed, 2; too low in protein; contained excess of oat by-products.

Red "S" Baby Chick Scratch, 1; equaled guaranty.

Standard Milling Co., Elkton, Ky. Inspection sample of Mixed Feed analyzed, 1; equaled guaranty.

Standard Roller Mills, Cerulean, Ky. Inspection sample of Jersey Feed analyzed, 1; too high in fiber.

Stevens Grain & Milling Co., Lucasville, O. Inspection samples analyzed, 4.

Scioto Feed, 2; too high in fiber; 1 too low in protein, contained hominy feed though not listed; 1 contained excess of corn bran.

Jays Fancy Mixed Feed, 2; too low in protein and fat; 1 too high in fiber.

Jesse C. Stewart Co., Pittsburg, Pa. Inspection sample of Big Diamond Feed analyzed, 1; equaled guaranty.

The St. Louis Mills Co., St. Louis, Mo. Inspection samples analyzed, 7.

Gilt Edge Laying Mash, 1; contained corn gluten feed and bone meal though not listed.

Gilt Edge Special Horse & Mule Feed, 1; too low in protein; contained ground grain screenings and weed seeds though not listed.

Gilt Edge 16% Dairy Feed, 2; 1 contained linseed oil meal though not listed.

Gilt Edge 24% Dairy Feed, 3; 1 too low in protein and fat; 1 no whole ground corn meal present; 1 contained cocoa shell though not listed.

Superior Milling Co., Harriman, Tenn. Inspection sample of Superior Mixed Feed analyzed, 1; equaled guaranty.

D. B. Sutherland & Sons, Bloomfield, Ky. Inspection sample of Sutherland's Feed analyzed, 1; too low in protein.

Sutherland Flour Mills Co., Cairo, Ill. Inspection sample of Sutherland's Dairy Ration analyzed, 1; too high in fiber; adulterated with oat hulls.

Swift & Co., Chicago, Ill. Inspection sample of 60% Digester Tankage analyzed, 1; equaled guaranty.

Three Minute Cereals Co., The Corno Mills Co., Prop., Cedar Rapids, Ia. Inspection samples analyzed, 2.

Corno Hygrade Oat By-Product Feed, 1; too low in protein and too high in fiber.

Corno Reground Oat Hulls, 1; equaled guaranty.

The Ubiko Milling Co., Cincinnati, O. Inspection samples analyzed, 6.

Wheat Middlings & Screenings, 1; too low in protein.

Ubiko All-Mash Complete Laying Ration, 1; equaled guaranty.

Ubiko Egg Mash With Buttermilk, 1; equaled guaranty.

Fourex Dairy Ration, 1; too low in protein; no corn meal present.

Sunbeam Dairy Ration, 1; equaled guaranty.

Ubiko Union Grains 24% Sweet Dairy Ration, 1; equaled guaranty.

Uniontown Roller Mills, Uniontown, Ky. Inspection sample of Mixed Feed analyzed, 1; equaled guaranty.

The Wallace Milling Co., Huntingburg, Ind. Inspection samples of Wallace's Mixed Wheat Feed & Screenings analyzed, 2; 1 much too low in protein; adulterated with corn meal.

Walton Sanitary Flour Mills, Walton, Ky. Inspection sample of Unique Egg Mash analyzed, 1; no alfalfa meal present; corn feed meal substituted for hominy meal; contained salt though not listed.

Washburn Crosby Co., Kansas City, Mo. Inspection samples analyzed, 3.

Washburn's Gold Medal Wheat Shorts & Screenings, 1; equaled guaranty.

North Star Egg Mash, 1; equaled guaranty.

Gold Medal Horse & Mule Feed (Heavy Grain), 1; too low in protein; no alfalfa meal present.

Weisenberger Sanitary Flour Mills, Midway, Ky. Inspection sample of Repeater Feed analyzed, 1; excess of corn bran present.

Alva West & Co., Maysville, Ky. Inspection sample of Mixed Feed analyzed, 1; equaled guaranty.

Winchester Roller Mills, Winchester, Ky. Inspection samples analyzed, 15.

Mixed Feed, 4; too low in protein; contained wheat middlings though not listed; 3 contained corn feed meal though not listed; 2 contained excess corn bran.

Kentucky White Feed, 2; 1 too high in fiber; 1 too low in fat.

"Perfection Brand" Egg Mash, 1; equaled guaranty.

Perfection Horse Feed, 1; equaled guaranty.

O-Kay Horse Feed, 1; equaled guaranty.

"Perfection Brand" Sheep Feed, 1; equaled guaranty.

"Perfection Brand" Dairy Feed, 1: contained linseed oil meal, corn gluten feed and malt grains though not listed; no alfalfa meal or rice bran present.

O-Kay Dairy Feed, 4; 3, wrong labels attached.

Woolcott Flour Mills, Lexington, Ky. Inspection samples analyzed, 5.

Woolcott's Mixed Feed, 2; too low in protein.

Alpine Dairy Feed, 2; contained brewers grains though not listed; no peanut meal present.

Pride of Kentucky Dairy Feed, 1; contained brewers dried grains though not listed; no corn distillers grains or peanut meal present.

Yopp Seed Co., Paducah, Ky. Inspection sample of 41% Cottonseed Meal analyzed, 1; too low in protein.

Zabel Milling Co., New Albany, Ind. Inspection sample of Mixed Wheat Feed & Screenings analyzed, 1; too low in protein.

J. W. Zaring Grain & Mill Co., Richmond, Ky. Inspection sample of Bonanza analyzed, 1; too low in protein.

Ziliak & Schafer Milling Co., Evansville, Ind. Inspection sample of Triangle Dairy Feed analyzed, 1; too low in protein and too high in fiber; contained cottonseed hulls and flax plant byproduct though not listed—adulterated and mibranded.